



CATALOG YEAR 2006-2008
(Please use separate form for each add/change)

COLLEGE: Arts and Sciences

Current Catalog Page(s) Affected p. 91 and p. 120

Course: Add: _____ Delete: _____ Change: Number _____ Title _____
(check all that apply) SCH _____ Description _____ Prerequisite _____

If new, provide Course Prefix, Number, Title, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current catalog, provide change and attach page with changes in red and provide a brief justification.

Program: BS with Major in Mathematics. Add: _____ Change: X

Attach new/changed Program of Study description and 4-year plan. If in current catalog, provide change and attach page with changes in red.

See changes in the next pages.

Justification: This change shows place of our new course in the program. The justification for adding this course was addressed in a separate document.

Minor: Add: _____ Delete: _____ Change: _____ Attach new/changed minor.

If in current catalog, provide change and attach page with changes in red.

Faculty: Add: _____ Delete: _____ Change: _____ Attach new/changed faculty entry. If in current catalog, provide change and attach page with changes in red.

College Introductory Pages: Add information: _____ Change information: _____ .Attach new/changed information. If in current catalog, provide change and attach page with changes in red.

Approvals:	Signature	Date
Chair Department Curriculum Committee	_____	_____
Chair Department	_____	_____
Chair College Curriculum Committee	_____	_____
Dean	_____	_____

Changes in the program are marked in red.

Degree Requirements for the BS with a Major in Mathematics

1. **Hours Required:** A minimum of **123** semester credit hours (SCH): 45 hours must be advanced, and fulfillment of degree requirements as specified in the "Requirements for Graduation" section of this catalog.
2. **University Core Curriculum:** **42** SCH as outlined in the suggested plans and as specified in the "Requirements for Graduation". **MATH 2371 must be taken as part of the core.**
3. **Major:** **57** SCH and the 3 SCH of Mathematics taken as part of the core. Lower-level requirements include MATH 2413, 2414, 2415, and COSC 2301. Advanced requirements include MATH 3310, 3330, 3360, 3365, 4310, 4335 and 27 SCH at least 24 of which must be selected from any 4000 level MATH courses, excluding MATH 4390.
4. **Minor:** **A minimum of 18 SCH from one discipline** at least twelve of which must be at the 3000-4000 level. See Appendix B.
5. **Electives:** **6** SCH, at the 3000-4000 level.

Changes in the 4 year degree plan are explained below:

Explanation of changes

The course MATH 2371 will be introduced as soon as possible, right after ENGL 1302. Since the purpose is to prepare students for more advanced courses we switch the old communications requirement to the Fall semester and move a more advanced Mathematics course to the Spring semester. In this case MATH 2371 and MATH 3365 switch semesters. No change in the hours per semester, nor total number of hours is done.

BACHELOR OF SCIENCE MAJOR IN MATHEMATICS

Following is **one** suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment. Students are responsible for reviewing the **Program of Study Requirements**.

**See Appendix A Core Curriculum and Optional Course Information.*

**** See Appendix C** for approved list of minors and requirements.

FALL	HOURS	SPRING	HOURS
FRESHMAN YEAR		FRESHMAN YEAR	
ENGL 1301 English Composition I	3	ENGL 1302 English Composition II	3
HIST 1301 The U.S. to 1877	3	HIST 1302 The U.S. Since 1877	3
MATH 2413 Calculus I	4	MATH 2414 Calculus II	4
Natural Science*	4	Natural Science*	<u>4</u>
Activity/Wellness*	<u>1</u>		
Total	15		14

SOPHOMORE YEAR

PSCI 2305 American National Govt	3
MATH 2415 Calculus III	4
MATH 2371 Communications in Math	3
COSC 2301 Fundamentals of Comp Sci	3
ENGL Survey of Literature*	<u>3</u>
Total	16

SOPHOMORE YEAR

PSCI 2306 American State Govt	3
MATH 3330 Differential Equations	3
MATH 3360 Statistics	3
MATH 3365 Discrete Mathematics	3
Visual/Performing Arts*	<u>3</u>
	15

JUNIOR YEAR

MATH 4335 Advanced Calculus	3
MATH 3310 Linear Algebra	3
Soc/Behavioral Science*	3
Minor Curriculum**	3
Minor Curriculum**	3
Advanced Elective	<u>3</u>
Total	18

JUNIOR YEAR

MATH 4310 Abstract Algebra	3
MATH MATH Elective	3
MATH Advanced Math Elective ¹	3
MATH Advanced Math Elective ¹	3
MATH Adv Minor Curriculum**	<u>3</u>
	15

SENIOR YEAR

MATH Advanced Math Elective ¹	3
MATH Advanced Math Elective ¹	3
MATH Advanced Math Elective ¹	3
Advanced Elective	3
Adv Minor Curriculum**	<u>3</u>
Total	15

SENIOR YEAR

MATH Advanced Math Elective ¹	3
MATH Advanced Math Elective ¹	3
MATH Advanced Math Elective ¹	3
Adv Minor Curriculum**	3
Adv Minor Curriculum**	<u>3</u>
	15

TOTAL SEMESTER CREDIT HOURS: 123

¹Math Electives, select 27 SCH at least 24 which must be from any 4000 level math courses, and excluding MATH 4390.